



INDIAN SCHOOL AL WADI AL KABIR

WORKSHEET(2025-2026)

Class: 11th (CS)	Department: Computer Science	Date of submission:
Worksheet No: 5	Topic: flow of control – Selection Statement – if else	Note:

Q1. What is the difference between else and elif construct of if statement?

Q2. . Write the output of the following if a = 9

```
if (a > 5 and a <=10):
```

```
    print("Hello")
```

```
else:
```

```
    print("Bye")
```

Q3. What will be the output of the following code fragment? I) if a = 25 ii) a=12 iii) if a=48

```
if ( a % 3 == 0):
```

```
    if(a % 4 ==0)
```

```
        b = a * 10
```

```
else:
```

```
    if(a%8 ==0):
```

```
        b = a + 50
```

```
else:
```

```
    b = a * 20
```

```
print("Result", b)
```

Q4. What is the error in the following code? Correct the code.

```
a, b = 30, 15
```

```
if a%3 = 0 :
```

```
    c=b*3
```

```
    print("Result = ",c)
```

```
Elif a%5 == 0
```

```
    d=b*5
```

```
Print("Result = ",d)
```

```
else:
    f==d*10
print("Result = ",f)
```

Q5. Find the errors in the code given below and correct the code:

```
x=25
if d==1
    y==x*2
elif: d==2
    y=x*3
elif
    d==3:
    y=x*20
else
    y=x*50
print("Value Y = ",y)
```

Q6. What gets printed with the following code?

```
X=True
Y=False
Z=False
if X or Y and Z:
    print "Yes"
else:
    print "No"
```

Q7. What will the program print if the user provides the following input?

(a) 3 (b) 21 (c) 17 (d) 5 (e) -5

```
val = eval(input())
if val < 10:
    if val != 5:
        print("Wow ", end=' ')
    else:
        val += 1
else:
    if val == 17:
```

```
        val += 10
    else:
        print("Well ", end=' ')
    print(val)
```

Q8. Find the output of the following codes.

a.

```
x=3
if x>2 or x<5 and x==6:
    print("ok")
else:
    print("no output")
```

b.

```
x=50
if x>10:
    if x>25:
        print("ok")
    if x>60:
        print("good")
    elif x>40:
        print("average")
    else:
        print("no output")
```

Q9. Evaluate the following statements:

```
a=True
b=True
c=True
d=True
i. print(not a or b or c )
ii. print(not (a and b and c))
iii. print(not (a or b or c) )
iv. print(not a and not b and not c)
v. print(not a or not b or not c )
vi. print(not (not a or not b or not c))
```

Q10. Do the following :

1. Write a Python program to check whether a No. is Odd or Even or not.
2. Write a Python program to check whether a No. is multiple of 5 or not.

- 3.. Write a Python program to check whether a No. is divisible by 8 or not.
4. Write a Python program to find elder person in 2 persons.
5. Write a Python program to check a character is vowel or not.
6. Write a Python program to input an arithmetic operator and two numbers and perform the operation based on the input operator.
7. Write a Python program to print the Income, Tax & Surcharge of Employ. The Tax and Surcharge based on the following conditions.

Income	Tax %	Surcharge
< Rs. 15000	15%	7%
Rs. 15001 to Rs. 20000	18%	11%
Above Rs. 21000	20%	13%

[Total Income =Income- Tax-Surcharge]
 [Tax=Income< Tax_percentage >)/100].
 Display all information like Income, Tax & Surcharge .
8. Write a Python program to get input distance and print fare for the passenger according to:

DISTANCE	FARE (in Rs.)
Upto 20km	10 P/Km
Next 20km	7 P/Km
Above	6 P/Km
9. Write a Python program to input a basic salary of an employee and calculate the Special Incentive based on the following criteria:

Basic Salary	Special Incentive
Less than 10000	15 % of Basic Salary
Between 10000 and 19999	25 % of Basic Salary
Between 20000 and 49999	35 % of Basic Salary
Otherwise	50 % of Basic Salary
10. Write a program to input 3 sides of a triangle (in cm) and print whether it is a scalene or isosceles or equilateral triangle.